CLASSIFICATION [redacted]

CENTRAL INTELLIGENCE AGENCY

REPORT NO. [redacted]

INFORMATION REPORT

CD NO. 25X1

~~SECRET~~ CONFIDENTIAL

COUNTRY Yugoslavia

DATE DISTR. 11 APR 1949

SUBJECT Trbovlje Steam Power Plant

NO. OF PAGES 3

PLACE ACQUIRED 25X1 [redacted]

NO. OF ENCLS. (LISTED BELOW) 1 sketch and map

DATE OF INFO. [redacted] 25X1

SUPPLEMENT TO REPORT NO. 25X1

[redacted]

THIS IS UNEVALUATED INFORMATION

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[redacted]

1. The Trobvlje Power Plant, beside the Ljubljana-Zidani Most railroad track near the Trbovlje station, is the largest of its kind in Slovenia. Capacity of the plant is 46,000 Kva, or 36,000 Kva at power factor of 0.8.

2. Coal dust, supplied by the Trbovlje brown coal mine, is transported to the plant by rail. During 1947 and 1948, heat tests were made with coal from the Banovici and Kostulac mines; results were reported to the Ministry of Electric Industry in Belgrade.

3. Personnel:

The plant has 160 employees and wages range from 12 to 16 dinars per hour. 25X1

Managing Director: Engineer Ivo Kranjc; 40 years old; experienced electrical engineer. [redacted]

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Assistant Director: Franc Koncan; 35 years old; born in Hrastnik. [redacted] 25X1

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Chief, Technical Department: Danilo Pokorn; 35 years old; [redacted]

4. Plant Identification:

(The following letters correspond to those on attached map)

A - Main building; contains the distributing station, machine room, storage rooms, boiler house, and other unspecified departments; also wardrobes and washrooms.

B - One-story; contains engineering department.

C - One-story; contains office of the managing director.

D - One-story stone building; contains workshops.

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E - Chimney.

F - Open, reinforced concrete bunkers for coal-dust.

G - Covered, reinforced concrete bunkers for reserve coal-dust.

H - Distributing station (See map for directions of leads and voltage figures.)

4. Machine room includes:

a) Generator No. 1 for alternating current, SSW (Siemens-Schuckert Werke) Model No. 6000209 FT 490/570/3000.

Contact: Y (Star)

Voltage: 10,500 V

Amperage: 1650 A

Output: 30,000 Kva (power factor of 0.8).

Revolutions: 3000.50 revolutions per second

b) Generator No. 2 for alternating current, SSW Model No. 2300583 MFT 470/54-3000.

Contact: Y (Star)

Voltage: 3150 V

Amperage: 2930 A

Output: 16,000 Kva (power factor of 0.8.)

Revolutions: 3000.50 revolutions per second.

The generators are directly connected with the steam-driven turbines. Steam pressure amounts to 42 atmospheres. There are two boilers; one is a Borsig, made in 1941-42. Because of defects in the blades, the turbine of the 30,000 Kva generator can be used up to only 70% or 75% of its normal capacity. Negotiations have been underway since 1947 with the Skoda plant in Czechoslovakia to have the turbine repaired. This cannot be done in Yugoslav plants because of lack of material and skilled workers.

5. The Trbovlje Power Plant supplies electric energy to the Trbovlje Coal Mine, as well as the town of Trbovlje, to the coal mine in Zagorje, and the town of Zagorje. Surplus energy is supplied to the Slovene State power net through distributor and transformer stations in Podlog and Lasko. The electric distribution and switch stations are varied, consisting of 3, 10, 30, 60 and 110 kilovolt (KV) devices. (The 16,000 Kva generator feeds into a 3 Kv line. This 3 Kv power is transformed to 30 Kv by three transformers in parallel. The 30 Kv line is run as a double line to Lasko and as a single line to Zagorje. The 30,000 Kva generator feeds into the 10 Kv line, and there is a 10 Kv/3 Kv, 10,000 Kva capacity, transformer connecting between the 10 Kv line and the 3 Kv line. The 10 Kv power lines are connected through the 10/110 Kv transformer with the new 110 Kv line which runs to Zagreb, via Lasko and Rajhenburg. The

The 60 kilovolts of the Podlog line are also transformed to 10 Kv. This line connects Trbovlje with the rest of the Slovene electric net, as well as with power plants in Velenje and Dravograd. The switches for each voltage are of different makes:

a) 110 Kv switch is a BBC (Brown-Boveri Co.) connector switch.
b) 30 Kv switch is a SSW (Siemens-Schuckert) expansion switch type R 6246/3030 S.
c) 60 Kv switch is a SSW expansion switch type R 624 g/60.
d) 10 Kv switch is a SSW expansion switch type R 624 g/60.
e) 3 Kv switch is a BBC, "Hartgass" and expansion switch.

6. The Trbovlje mine is supplied by overhead power lines with electric power through 3 and 10 Kv units.